

## Patent Abstracts of Japan

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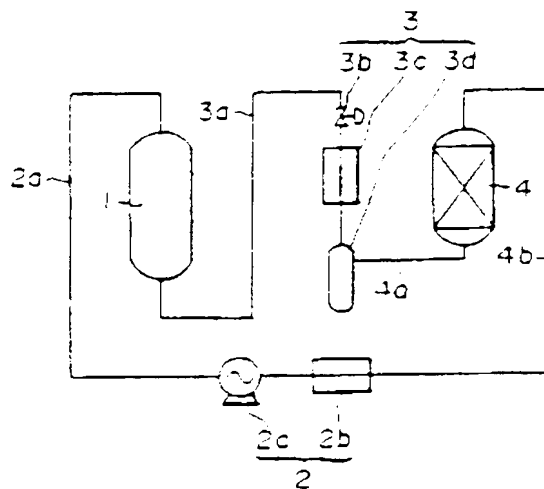
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TITLE : CLEANING METHOD FOR RICE AND ITS DEVICE



ABSTRACT : PURPOSE: To treat rice well by extracting various kinds of components from rice with carbon dioxide, removing a low volatile component under a reduced carbon dioxide density, and then removing a high volatile component by means of an adsorbent and circulating carbon dioxide.

CONSTITUTION: Carbon dioxide, liquid or being in the supercritical state with the density of  $700\text{kg/cm}^3$  or more, is brought into contact with rice in a pressure-resistant cleaning tank 1 to clean rice and removing fat, smelly components and others. Then, carbon dioxide used for said cleaning is introduced into a separation mechanism 3 provided with a pressure reducing valve 3b and/or a heating means 3c, and its density is made  $600\text{kg/cm}^3$  or less, and then a low volatile content such as fat melted into carbon dioxide or the like in said cleaning is phase separated. Then, evaporated carbon dioxide is introduced into an adsorbent layer 4 such as active carbon or the like, and carbon dioxide is recovered by adsorption separating a high volatile component such as a smelly component or the like remaining in carbon dioxide.

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